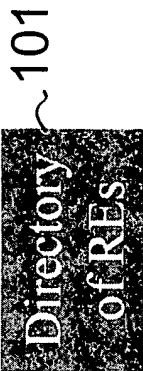


[illegible]

Retrieval Engine 1

102-1

Retrieval Engine 2

102-2

Retrieval Engine n

102-5

1047
RE
Discovery

1047

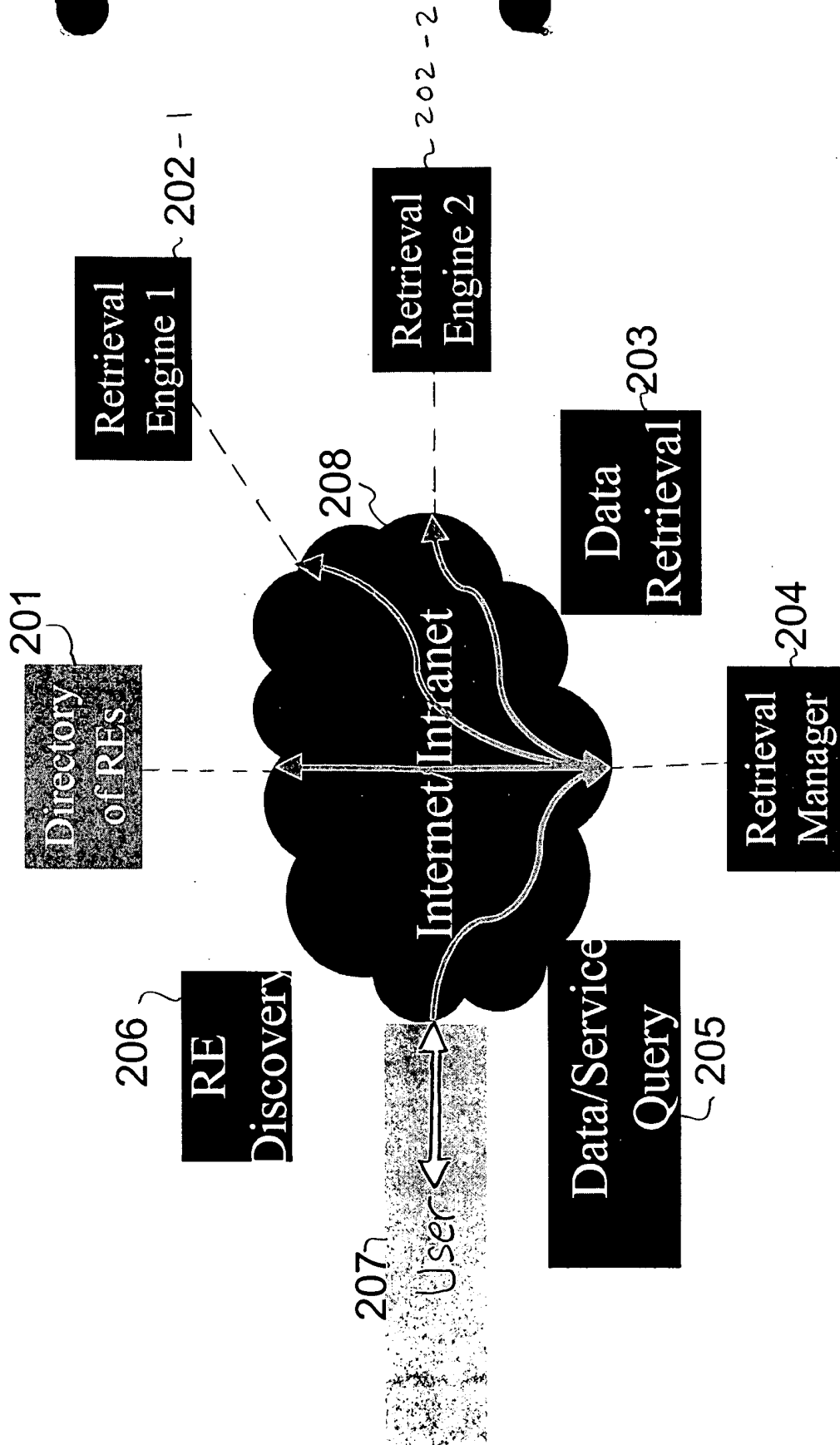
Data Retrieval

105

User

110

FIG. 2



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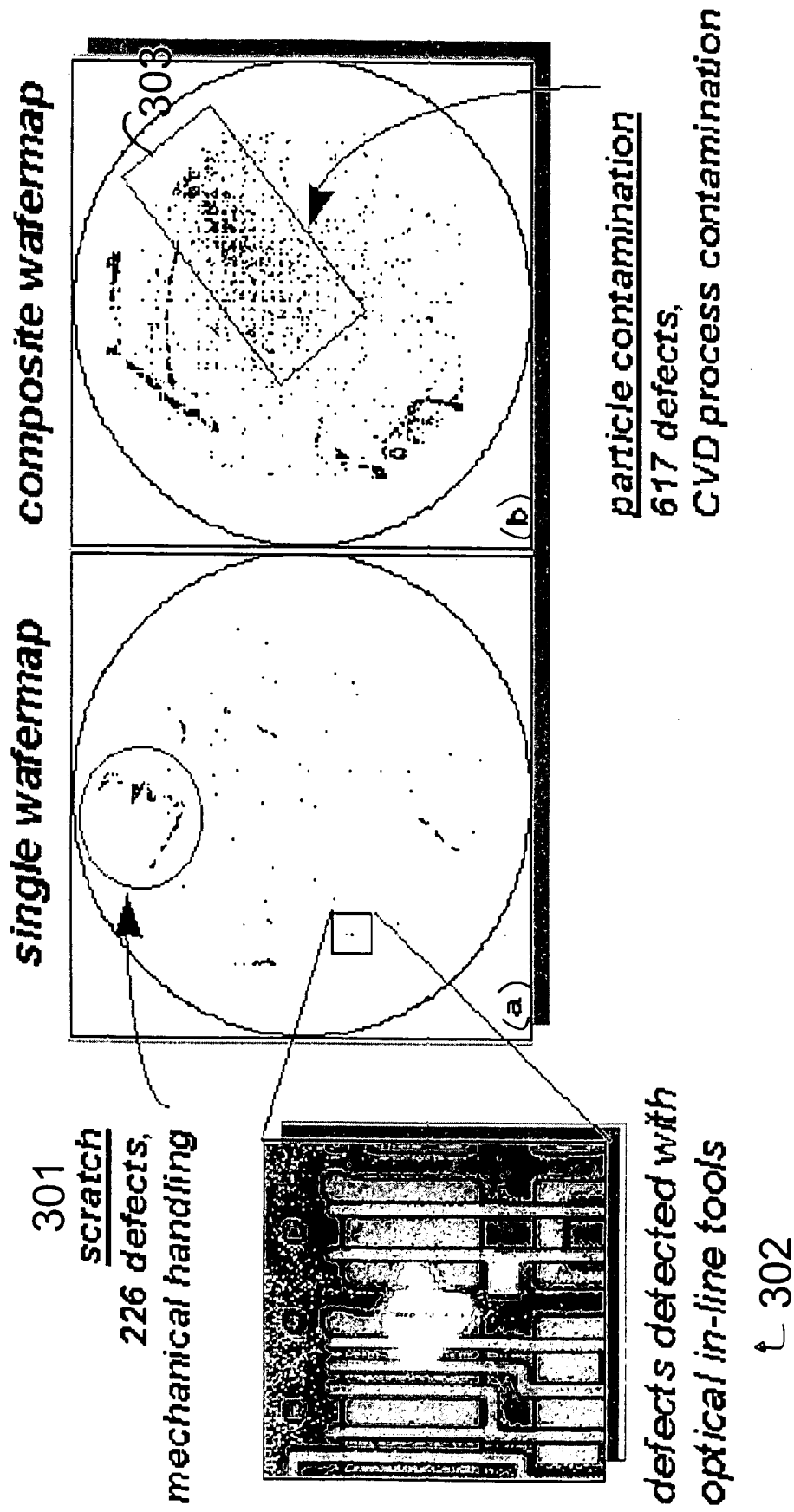


FIG. 3

Oct 12 11:44:33

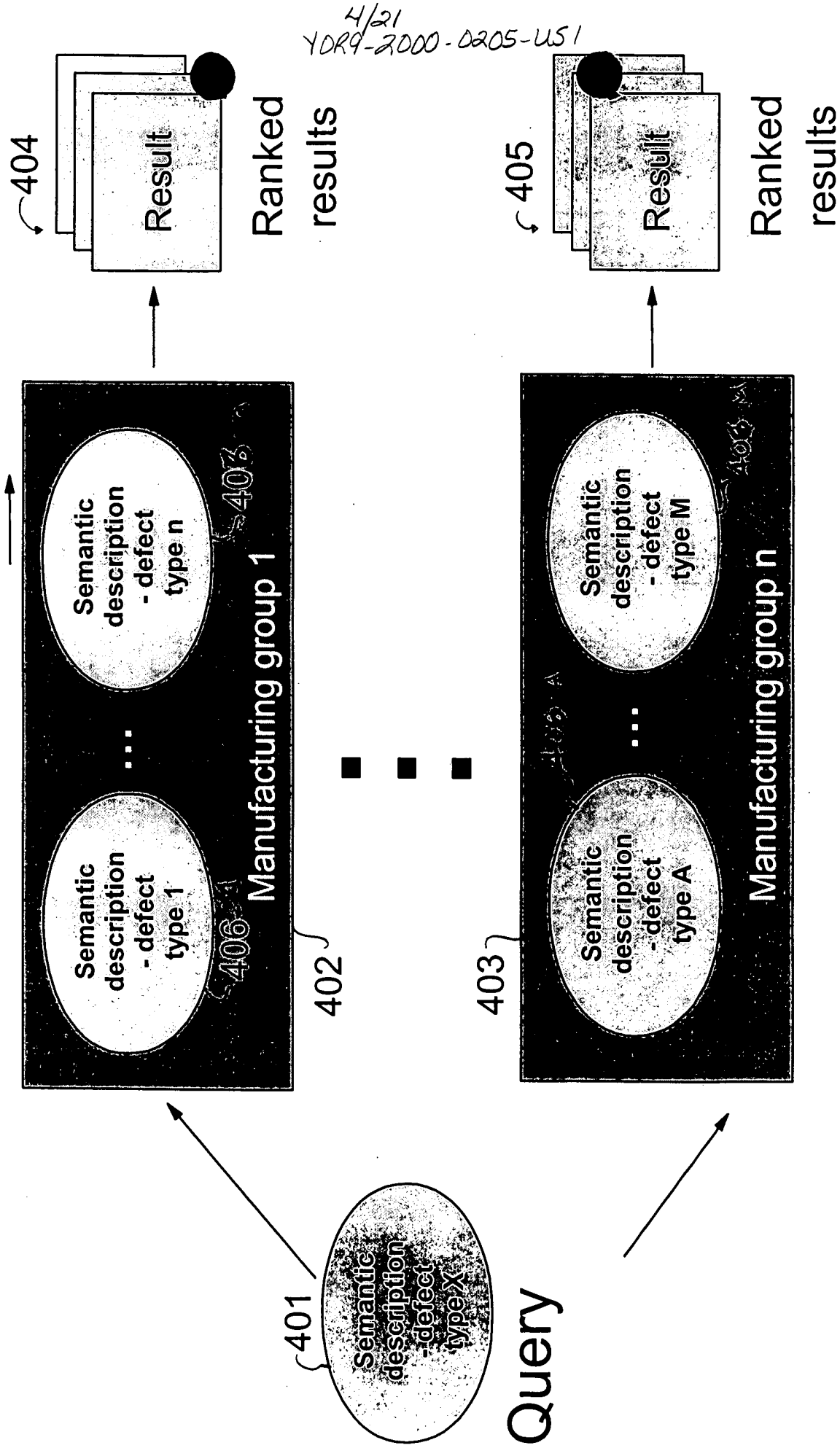


FIG. 4

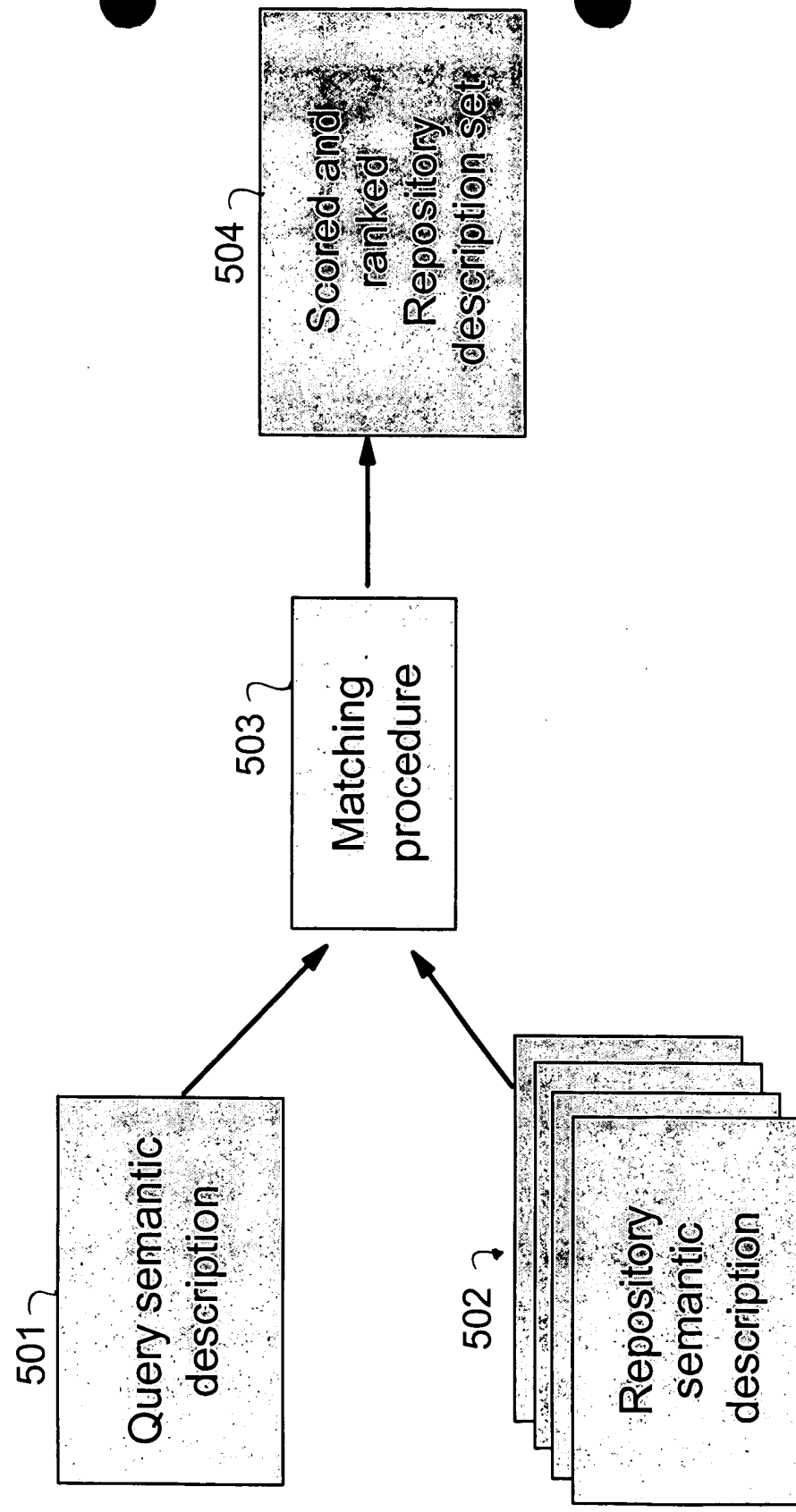


FIG. 5

DocId: 3444350

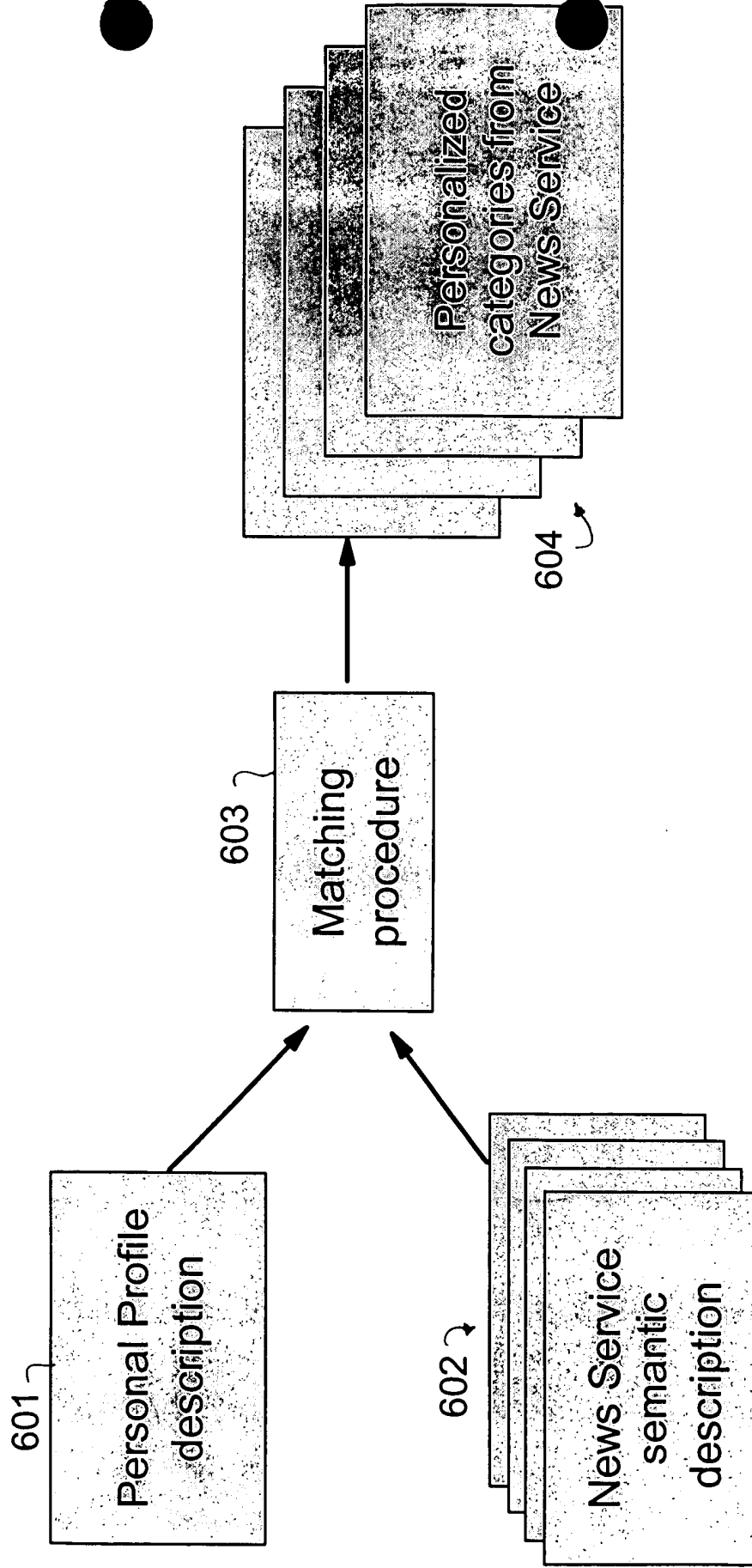
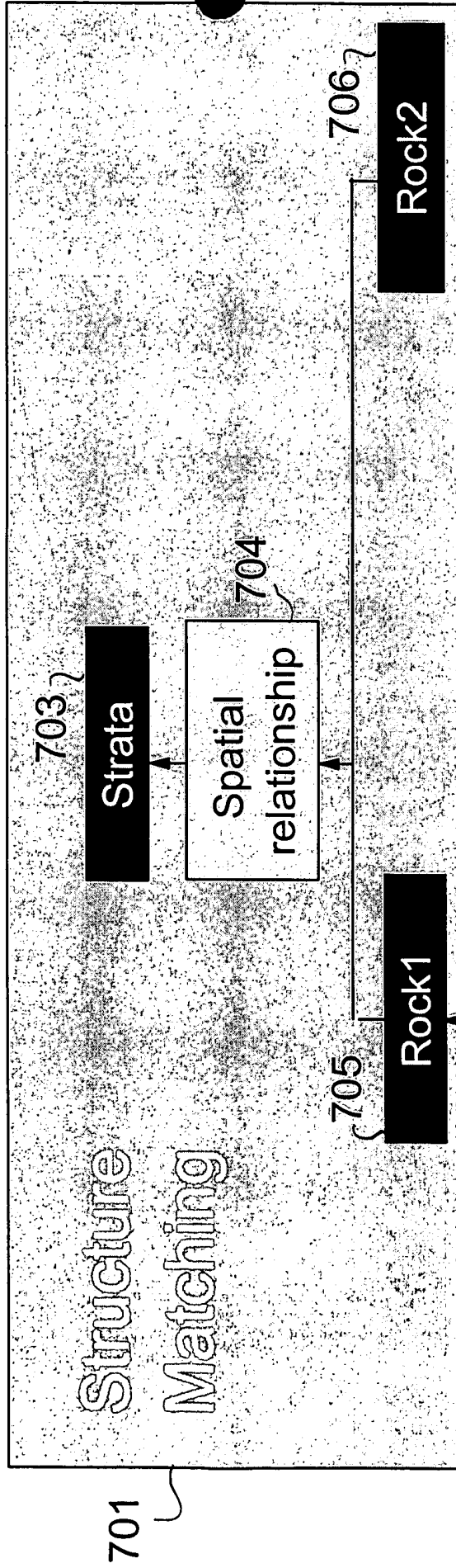
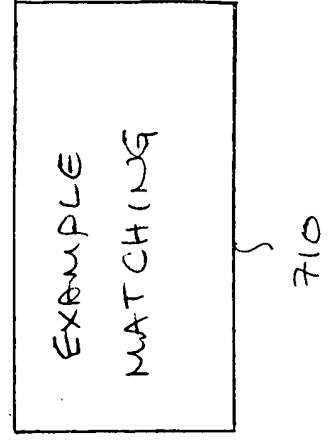
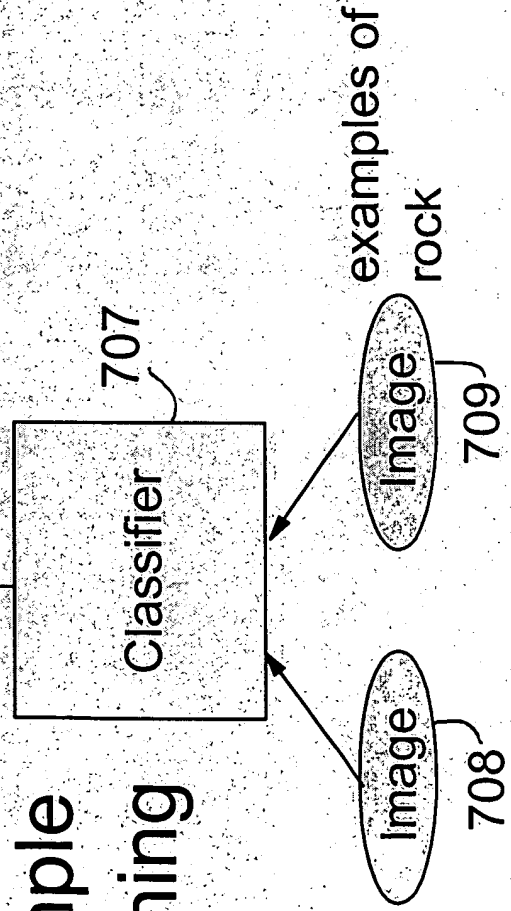


FIG. 6

FIG. 7



702 Example Matching



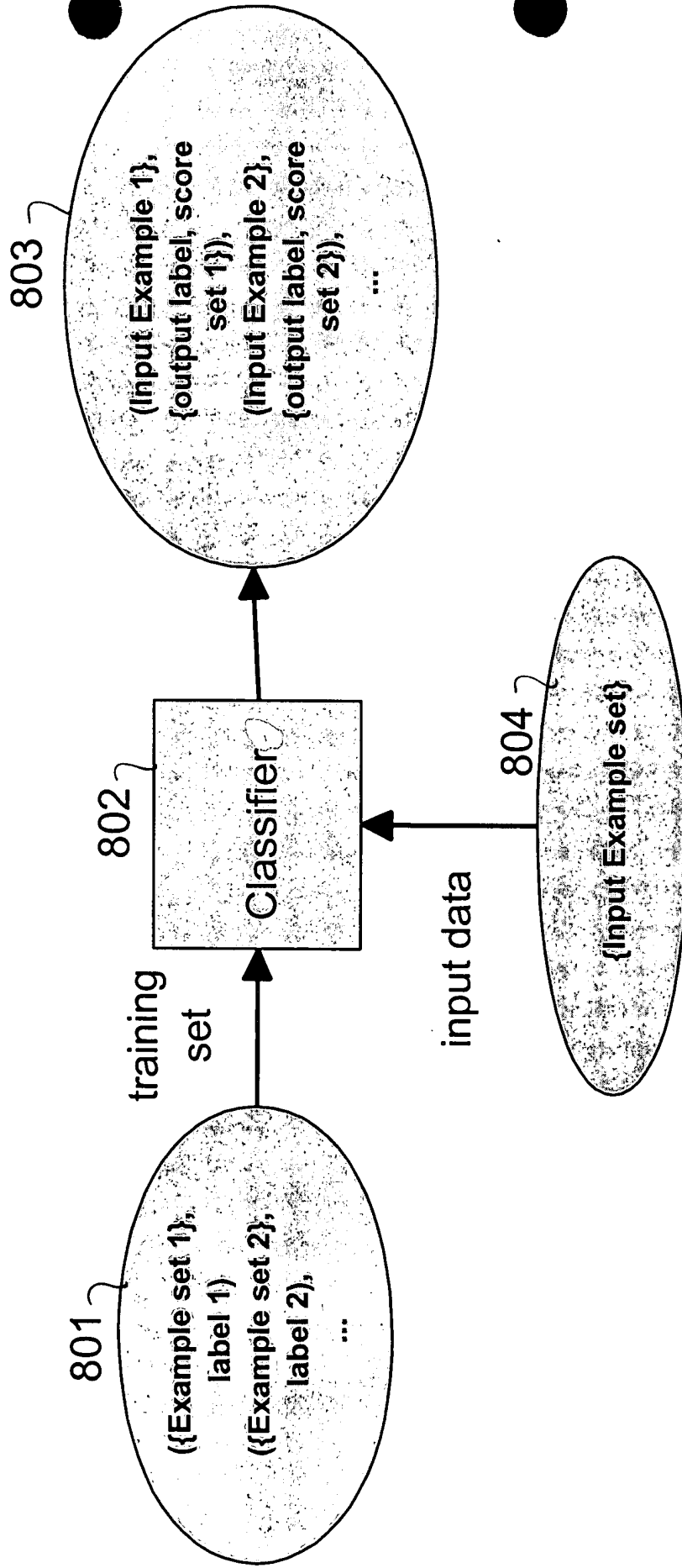


FIG. 8

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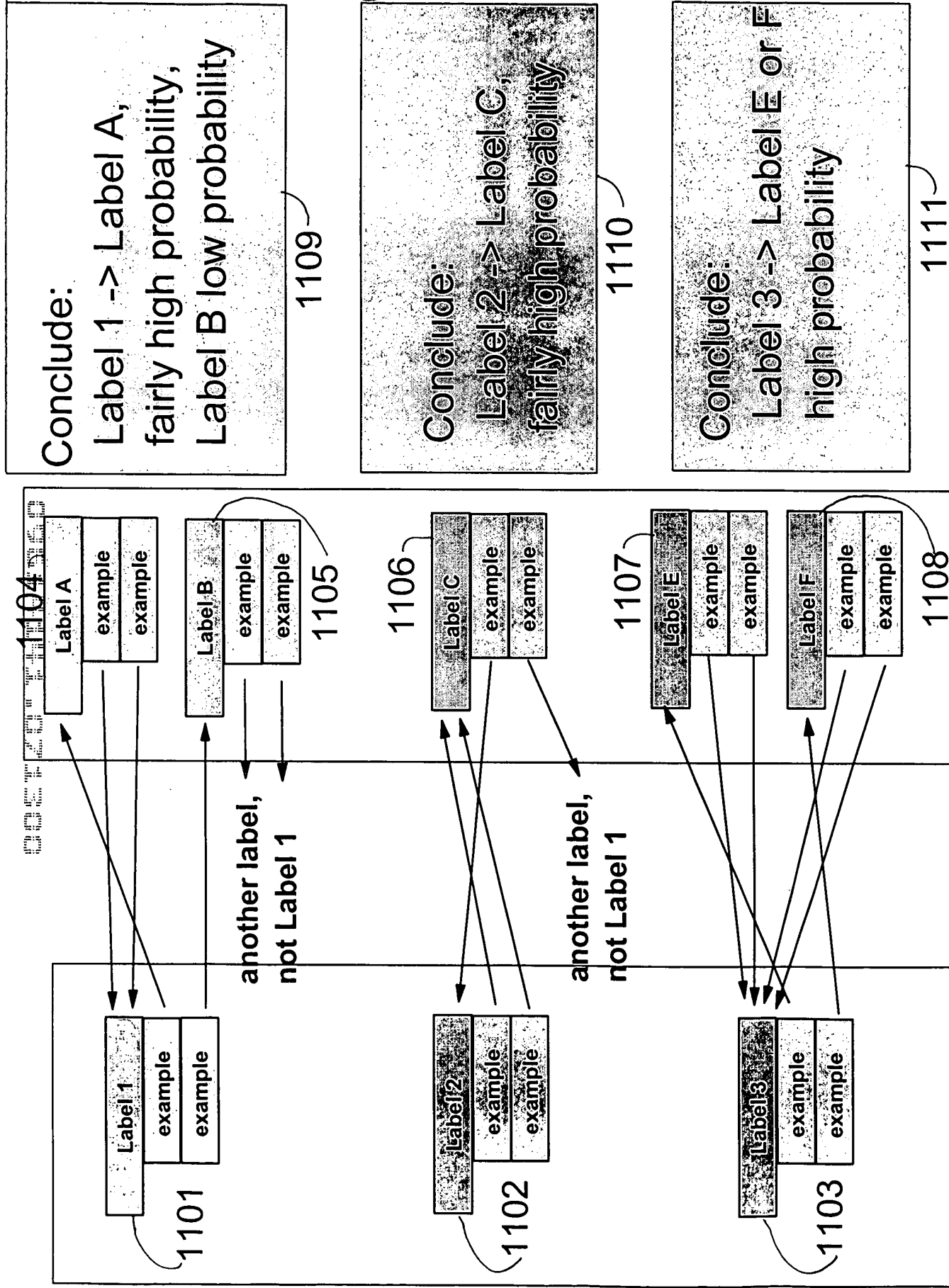


FIG. 11

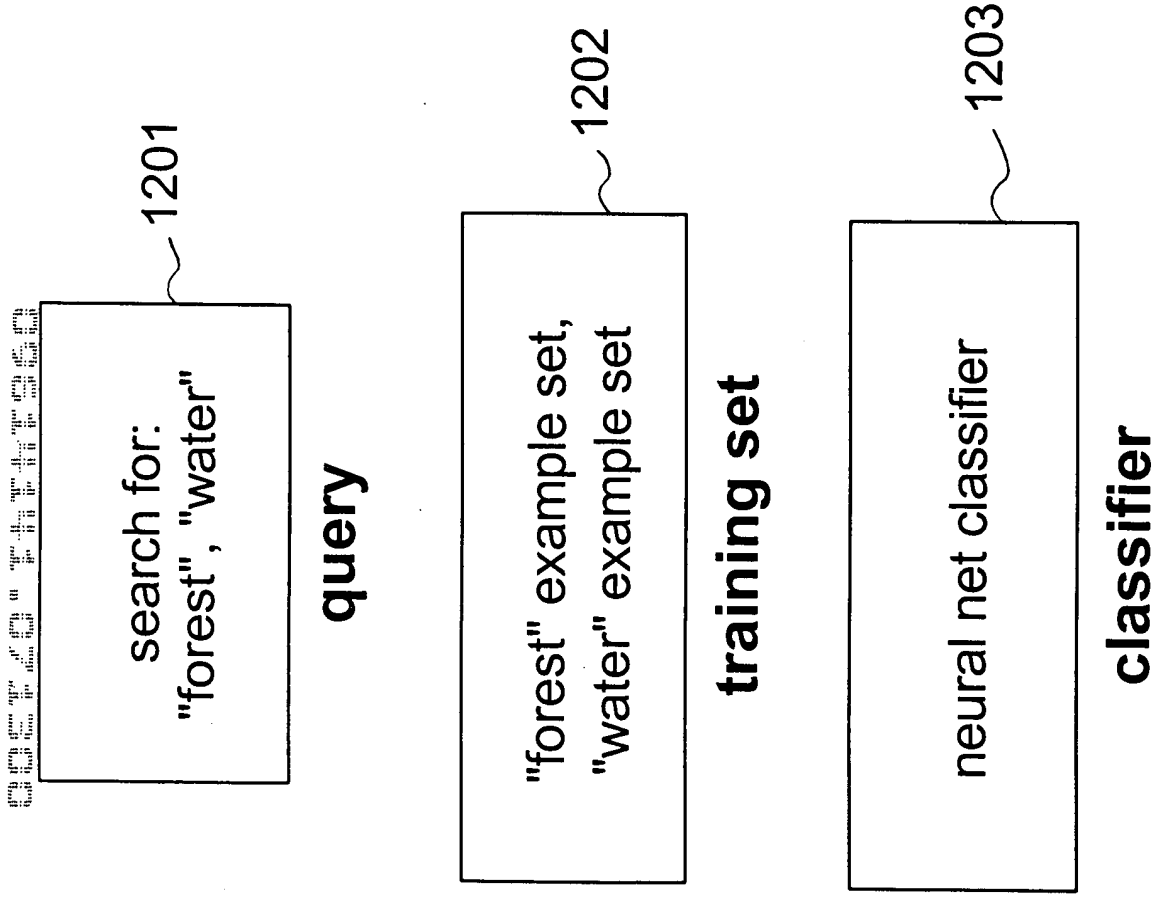


FIG. 12

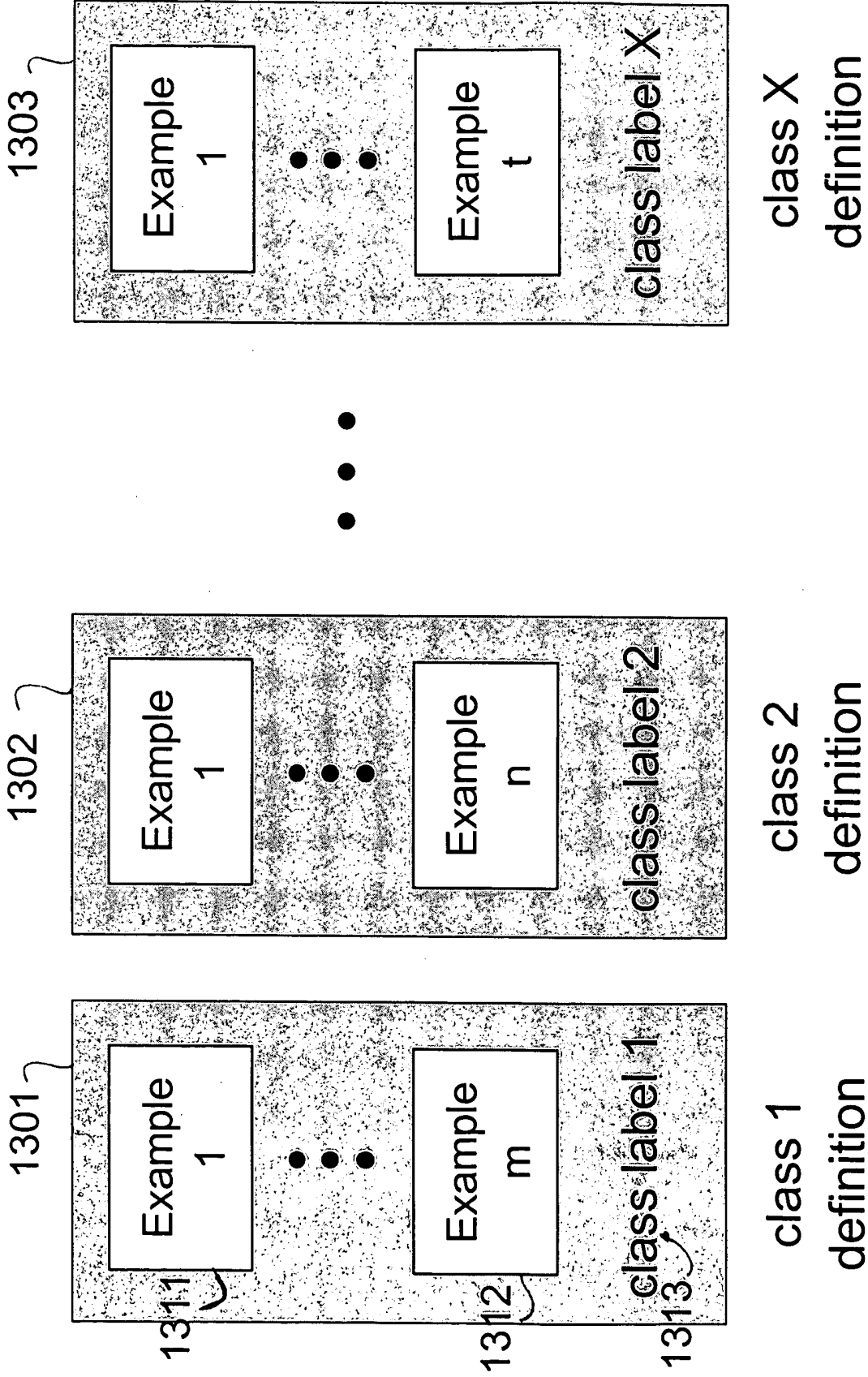


FIG. 13

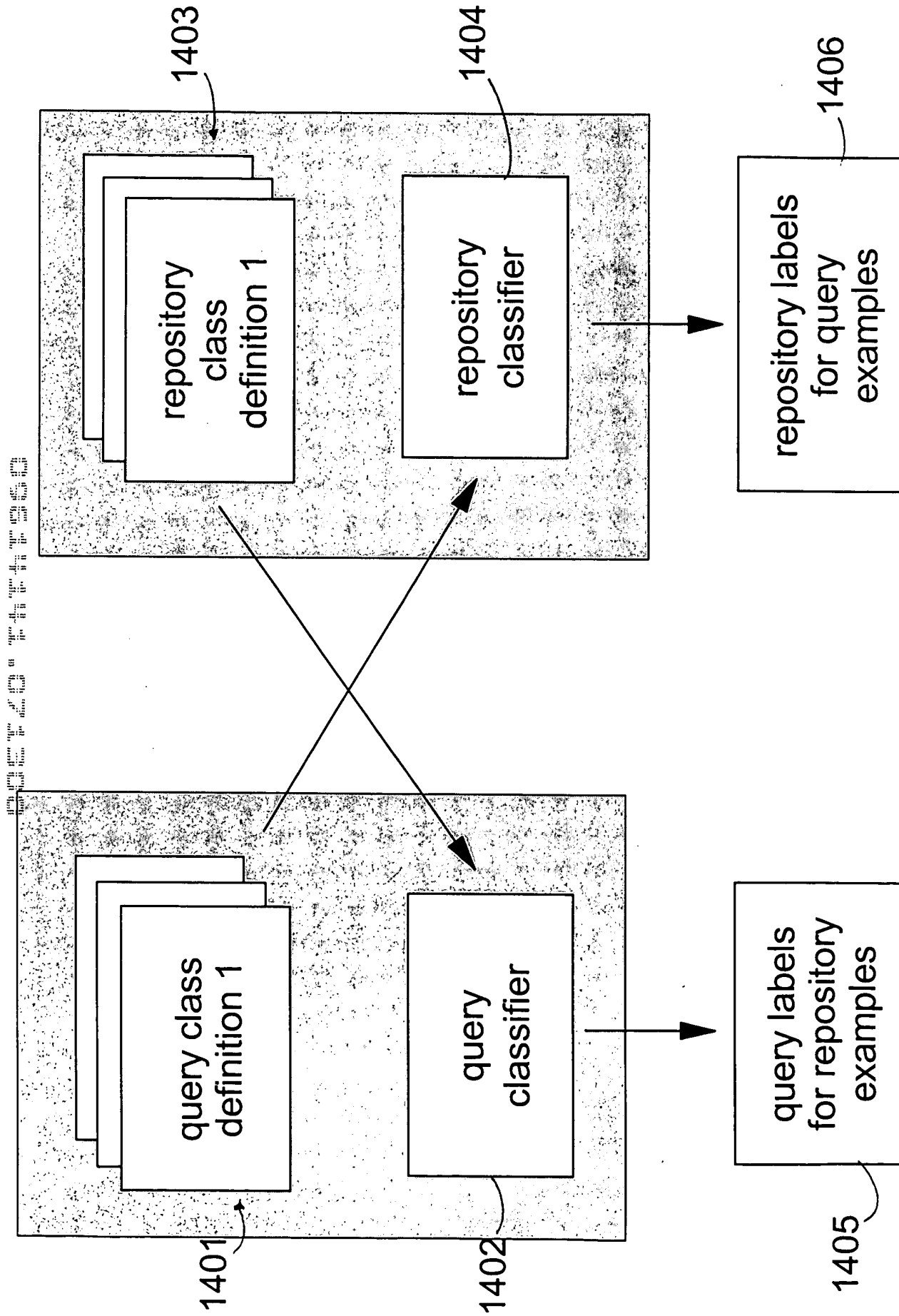
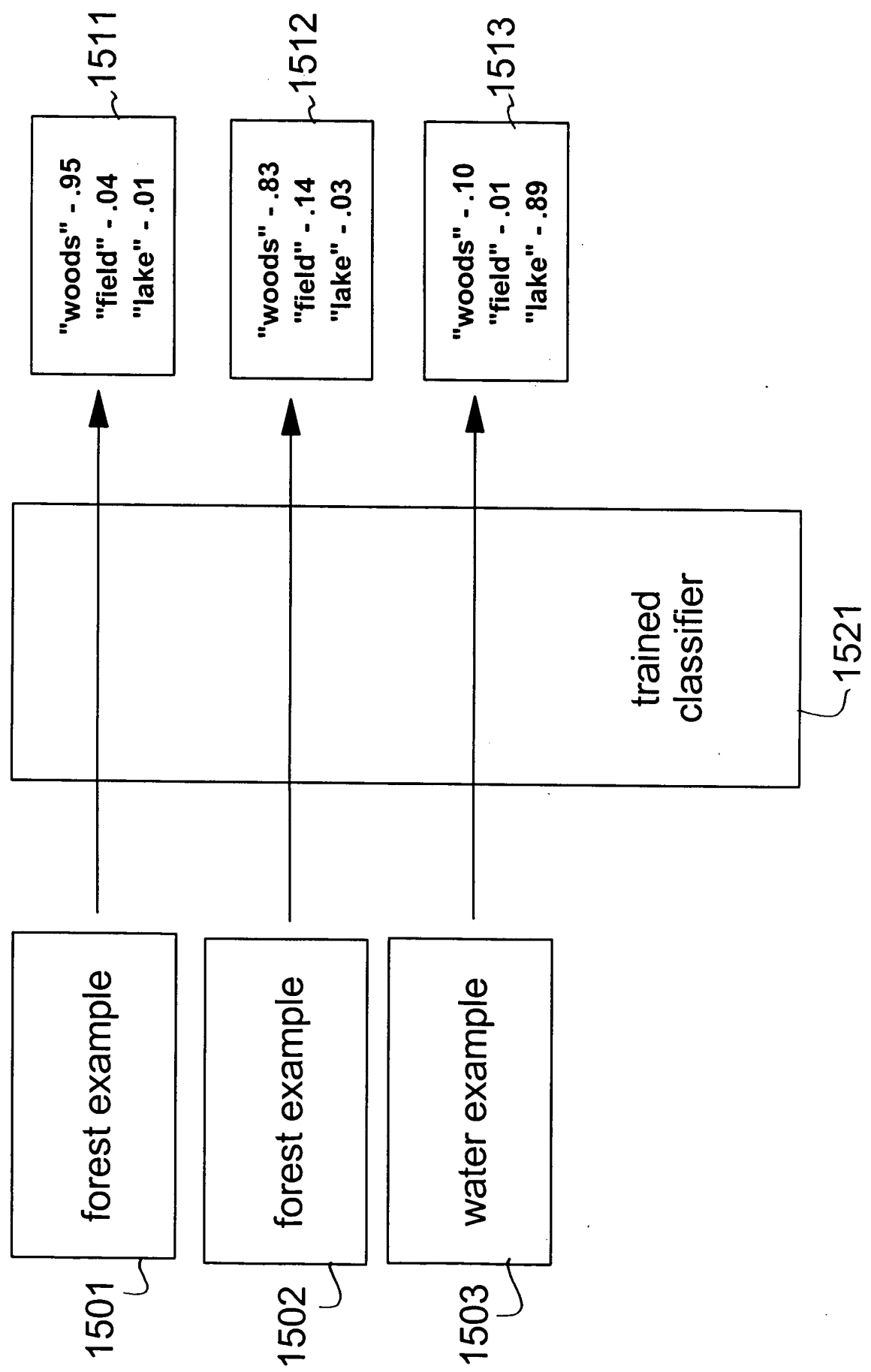


FIG. 14

FIG. 15

FIG. 15



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Input label	Output label	Score
Forest	Woods	.95
Forest	Field	.04
Forest	Lake	.01
Forest	Woods	.83
Forest	Field	.14
Forest	Lake	.03
Water	Woods	.10
Water	Field	.01
Water	Lake	.89

example 1
1601

example 2
1602

example 3
1603

(A) Query examples cross-classified using repository classifier

Input label	Output label	Score
Woods	Forest	.97
Woods	Water	.03
Woods	Forest	.89
Woods	Water	.11
Field	Forest	.67
Field	Water	.33
Lake	Forest	.05
Lake	Water	.95

1604
example 1

1605
example 2

1606
example 3

1607
example 4

(B) Repository examples cross-classified using query classifier

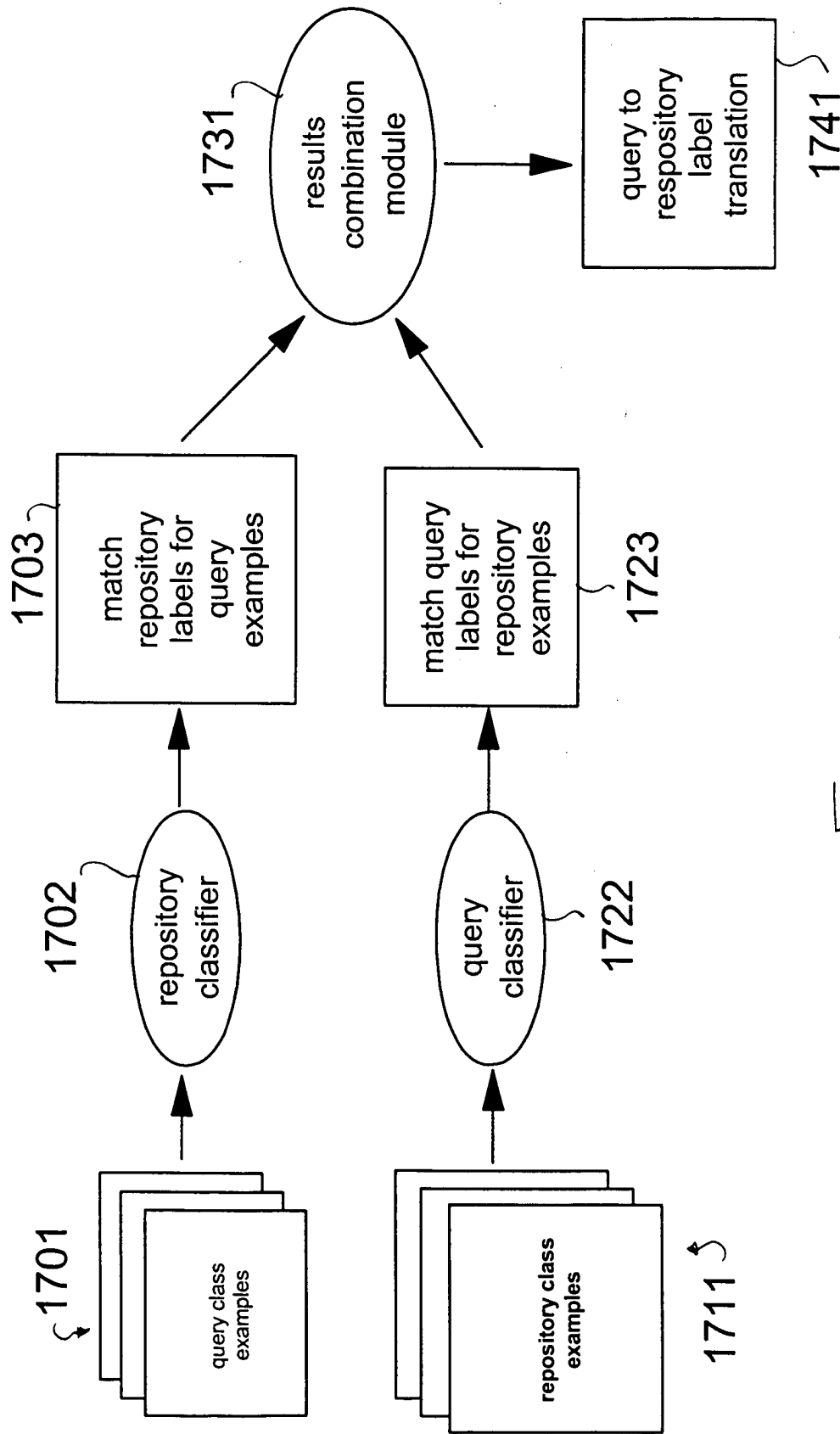
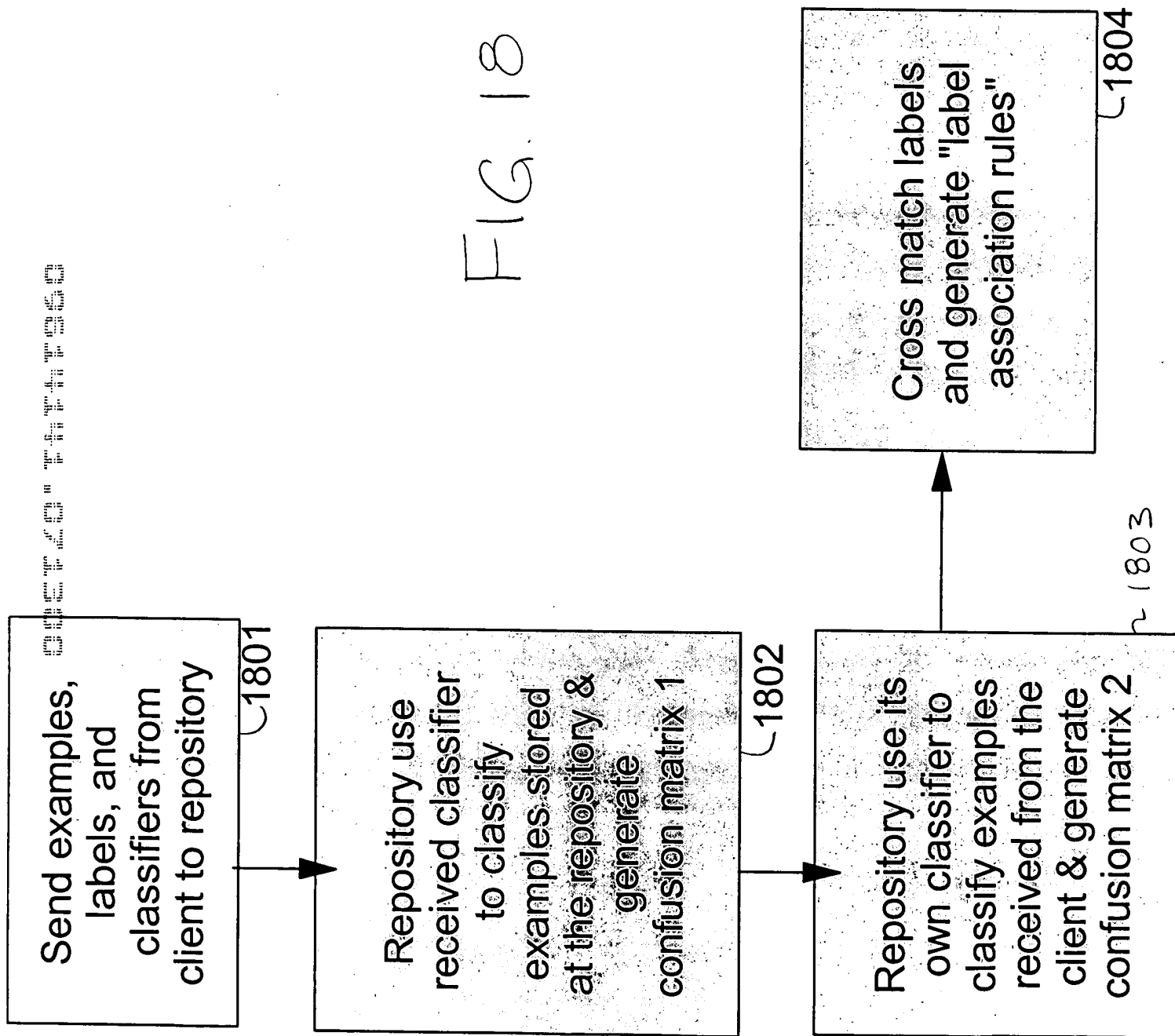


FIG. 17



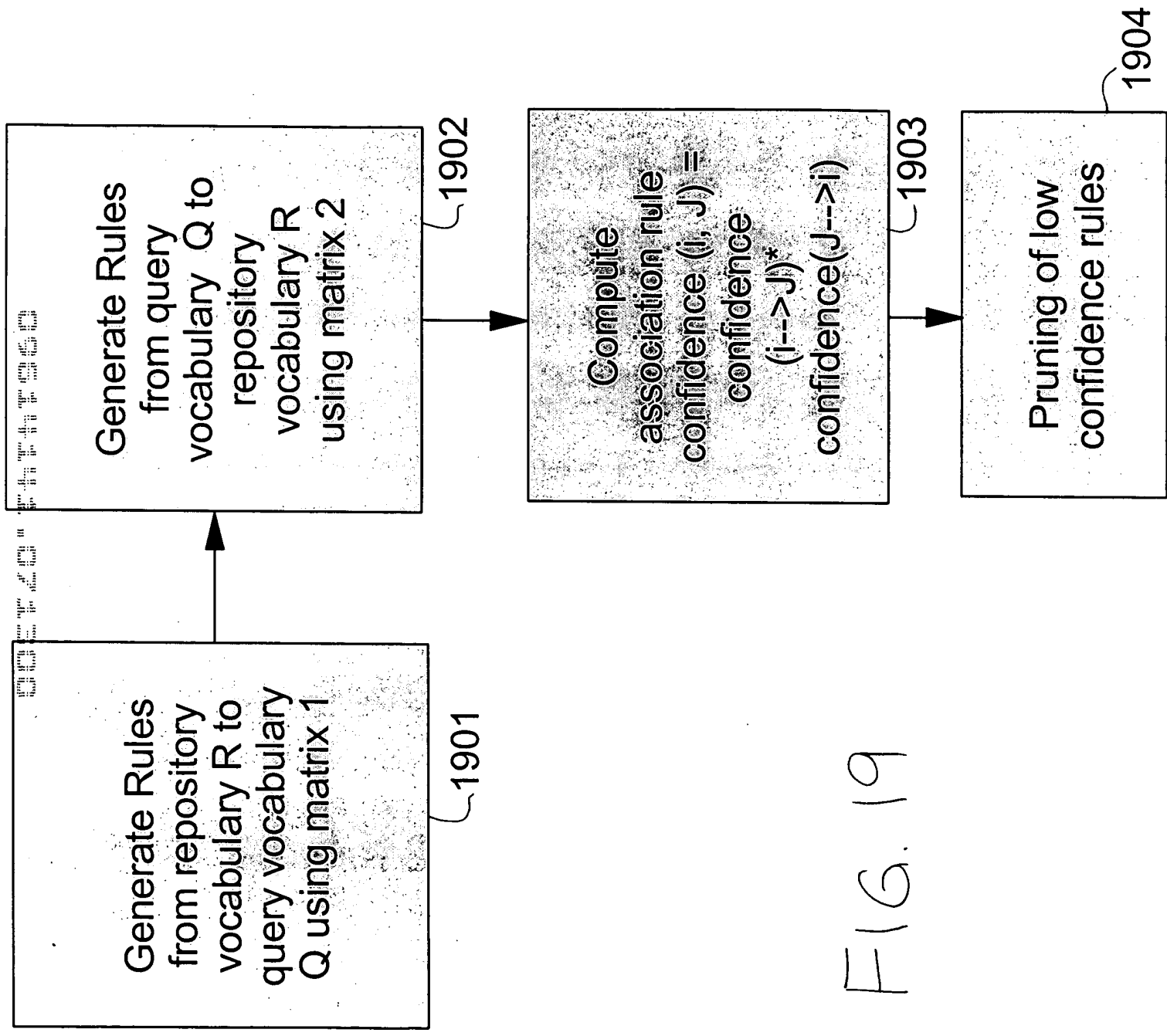


FIG. 19

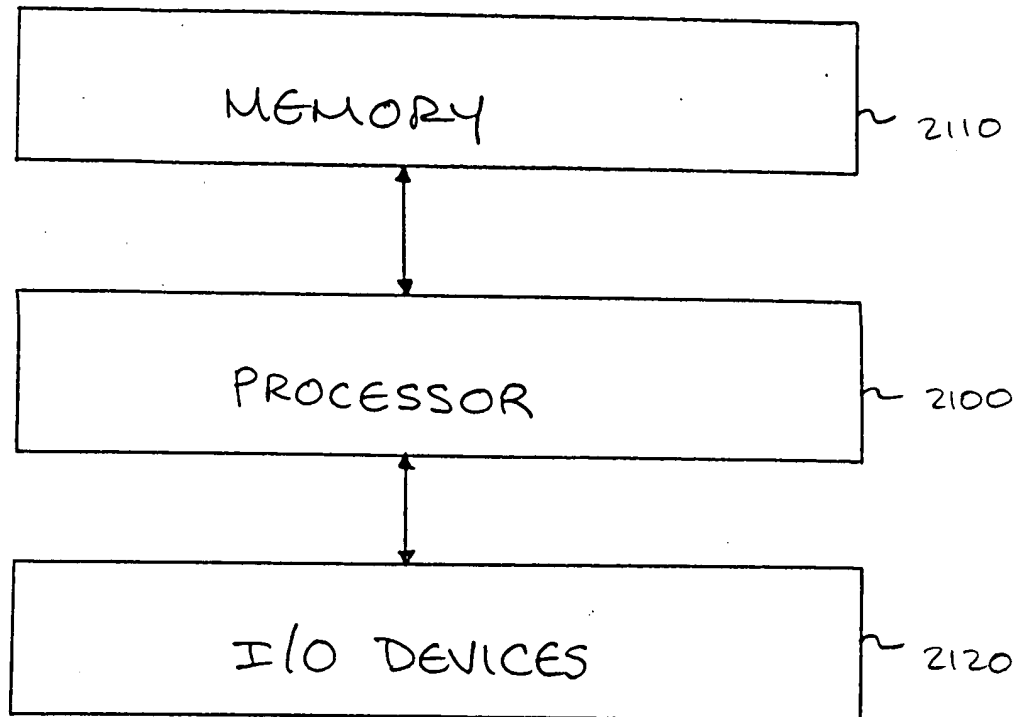


FIG. 21